KES

Method of Micro – Streak – Flaw Test for Steel

KES T – K009

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1. Scope of Application

This standard determines the method of micro streak flaw test for steel rolled or forged by eyes.

2. Test Instruments

Vernier Calipers, Steel Ruler

3. Terminology

Micro streak flaw used in this standard means as following.

(1) Micro Streak Flaw

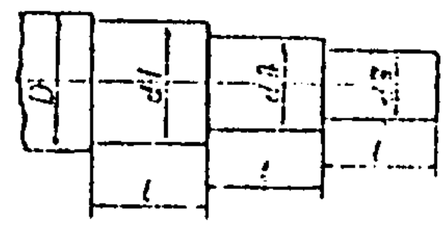
On the processed surface of steel, it means line shape crack by pinhole/blowhole, non-metallic interposition thing, and sand, other substances that can be detected by eyes. In this case obviously, cracks by process or blowing shall not be included.

4. Specimen

Machine -process rolled or forged steel with circle shape section, as the rule, as the dimensions on table 1. It can be machine-processed with proper dimension according to steel type and usage. Although the roughness of the processed surface shall be, as the rule, 12.5~25S of KS B 0161 (Surface roughness), it can be any degree of roughness as it needs. However, if the steel section shape is other than circle, follow the agreement between the ordering person and manufacturer.

Table 1. Dimensions of cut specimen

Unit : mm

Diameter D	First level diameter d I	Second level diameter d II	Third level diameter d III	Length of each level ℓ	
More than 20 less than 30	D – 2	—	—	63.6	
Over 30 below 75	D – 4	D × 2/3	D × 1/1	"	
More than 75 less than 150	D – 6	D × 2/3	D × 1/1	"	

Remark : Follow the agreement between the ordering person and manufacturer for the steel whose diameter is below 20 mm or over 150 mm.

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